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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,552	01/02/2004	Kazuo Nishi	0756-7243	8761
31780	7590	02/24/2005	EXAMINER	
ERIC ROBINSON			WARREN, MATTHEW E	
PMB 955			ART UNIT	
21010 SOUTHBANK ST.			PAPER NUMBER	
POTOMAC FALLS, VA 20165			2815	
DATE MAILED: <u>12/29/5</u>				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/749,552	NISHI ET AL.	
	Examiner	Art Unit	
	Matthew E. Warren	2815	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 19 October 2005.
- 2a) This action is FINAL.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 17-30 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 17-30 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date 10/19/05.
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_.

## DETAILED ACTION

This Office Action is in response to the Amendment filed on October 19, 2005.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 17-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamazaki et al. (6,236,063 B1) in view of Yamazaki et al. (US 5,834,327).

In re claims 17-20, and 25 Yamazaki et al. '063 shows (fig. 7) a semiconductor device comprising a first semiconductor element (B) using a crystalline semiconductor film (414) as a first active region and a second semiconductor element (421) using an amorphous semiconductor film as a second active region, wherein the first semiconductor element and the second semiconductor element are electrically connected to each other (through contact 419). Yamazaki '063 also discloses (col. 1, lines 25-45) that the device may comprise a controller over a printed wiring board, a power supply circuit over the wiring board and an optical sensor over the printed wiring board, since the invention pertains to a scanner or digital camera, which inherently has these components. Yamazaki '063 does not show that the devices are formed over the adhesive or over the plastic substrate. Yamazaki et al. '327 shows (fig. 5c) TFT's having active regions of crystalline silicon or amorphous silicon formed over an adhesive layer

(76) and non glass substrate (75). The substrate may also be a plastic to provide a light weight device having high shock resistance (col. 17, line 65-col. 18, line 2). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the glass substrate of Yamazaki '063 by using a plastic substrate as taught by Yamazaki '327 to provide a light weight device having high shock resistance.

In re claim 21, a "product by process" claim limitation is directed to the product per se, no matter how actually made, *In re Hirao*, **190 USPQ 15 at 17**(footnote 3). See also *In re Brown*, **173 USPQ 685**; *In re Luck*, **177 USPQ 523**; *In re Fessmann*, **180 USPQ 324**; *In re Avery*, **186 USPQ 116** *In re Wertheim*, **191 USPQ 90** (**209 USPQ 254** does not deal with this issue); and *In re Marosi et al*, **218 USPQ 289** final product per se which must be determined in a "product by, all of" claim, and not the patentability of the process, and that an old or obvious product, whether claimed in "product by process" claims or not. Note that Applicant has the burden of proof in such cases, as the above case law makes clear. "Even though product-by- process claims are limited by and defined by the process, determination of patentability is based upon the product itself. The patentability of a product does not depend on its method of production. If the product in product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product is made by a different process." *In re Thorpe*, **227 USPQ 964, 966** (Fed. Cir. 1985)(citations omitted).

In re claims 22, 23, 26, and 27 Yamazaki '327 shows (fig. 7) that the first and second semiconductor elements are thin film transistors. Yamazaki '063 discloses that the second element is a diode (col. 2, lines 54-67)

In re claim 24, Yamazaki '063 shows (fig. 7) that the semiconductor device includes a photoelectric conversion element (421).

In re claim 28, Yamazaki '063 discloses (col. 1, lines 25-37) that the semiconductor device is a module of an electronic device. The device also provides a panel having a pixel portion, a scanning line, driver circuit, and signal line driver circuit (col. 1, lines 49-65).

In re claim 30, Yamazaki '327 already discloses that the substrate is plastic, therefore, the device is provided through an FPC.

### ***Response to Arguments***

Applicant's arguments with respect to claims 17-30 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

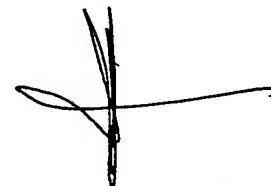
shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew E. Warren whose telephone number is (571) 272-1737. The examiner can normally be reached on Mon-Thur and alternating Fri 9:00-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Parker can be reached on (571) 272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MEW  
*MEW*  
December 23, 2005



JPE Kenneth Parker  
TC2800